

K.  
Kerr

1600

#11

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/783,436

DATE: 06/03/2002

TIME: 13:59:23

Input Set : A:\Cural721.app

Output Set: N:\CRF3\06032002\I783436.raw

p.6

ENTERED

3 <110> APPLICANT: Vernet et al.  
 5 <120> TITLE OF INVENTION: Novel Polypeptides and Nucleic Acids Encoding Same  
 7 <130> FILE REFERENCE: 15966-672 Utility  
 9 <140> CURRENT APPLICATION NUMBER: 09/783,436  
 10 <141> CURRENT FILING DATE: 2001-02-14  
 12 <150> PRIOR APPLICATION NUMBER: 60/182,637  
 13 <151> PRIOR FILING DATE: 2000-02-15  
 15 <150> PRIOR APPLICATION NUMBER: 60/237,862  
 16 <151> PRIOR FILING DATE: 2000-10-04  
 18 <150> PRIOR APPLICATION NUMBER: 60/240,316  
 19 <151> PRIOR FILING DATE: 2000-10-13  
 21 <150> PRIOR APPLICATION NUMBER: 09/783,436  
 22 <151> PRIOR FILING DATE: 2001-02-14  
 24 <160> NUMBER OF SEQ ID NOS: 75  
 26 <170> SOFTWARE: PatentIn Ver. 2.1  
 28 <210> SEQ ID NO: 1  
 29 <211> LENGTH: 579  
 30 <212> TYPE: DNA  
 31 <213> ORGANISM: Homo sapiens  
 33 <400> SEQUENCE: 1  
 34 tatggaataa agaaccatga cggagtgccca tgcgcagcca gagaagagac caccacccga 60  
 35 gagagggtttc atcctaccat gtaactctgc ttacagccta ctgtcttctc accggcggtgc 120  
 36 tggggacagc aaagtctgag gactctgggtt ggtgtgggcc tgtgtgcaag gagagcagtg 180  
 37 gccatgggat aaggcctctg cacagctcta gaagcttcaa tccattttcc acccatacat 240  
 38 ctctttgtgc tctcacaccc ccacagccct tctggaataa gaccatcaca gcacagggtt 300  
 39 tgcaagatgt ctaatgccag tcattcacag ggcagctcag accctggcct gcgggtgcata 360  
 40 ctaggtgact ccacatgagg tgtcatgcta gatcctgcag ggagaataag cacacacagg 420  
 41 cccgtgaccc atgctgtgga cttcatgttc taggaggtag agggagacag acaagaatca 480  
 42 aatgactgta ctaggccggg cgcactggct cagcctgta atcccagcac tttggggagg 540  
 43 ccgaggcagg tggatcacga ggccaggcgt tcgagacca 579  
 46 <210> SEQ ID NO: 2  
 47 <211> LENGTH: 94  
 48 <212> TYPE: PRT  
 49 <213> ORGANISM: Homo sapiens  
 51 <400> SEQUENCE: 2  
 52 Met Arg Ser Gln Arg Arg Asp His His Pro Arg Glu Val Ser Ser Tyr  
 53 1 5 10 15  
 55 His Val Thr Leu Leu Thr Ala Tyr Leu Leu Thr Gly Val Leu Gly  
 56 20 25 30  
 58 Thr Ala Lys Ser Glu Asp Ser Gly Trp Cys Gly Pro Val Cys Lys Glu  
 59 35 40 45  
 61 Ser Ser Gly His Gly Ile Arg Pro Leu His Ser Ser Arg Ser Phe Asn  
 62 50 55 60

## RAW SEQUENCE LISTING

DATE: 06/03/2002

PATENT APPLICATION: US/09/783,436

TIME: 13:59:23

Input Set : A:\Cural721.app

Output Set: N:\CRF3\06032002\I783436.raw

```

64 Pro Ile Ser Thr His Thr Ser Leu Cys Ala Leu Thr Pro Pro Gln Pro
65 65 70 75 80
67 Phe Trp Asn Lys Thr Ile Thr Ala Gln Gly Leu Gln Asp Val
68 85 90
71 <210> SEQ ID NO: 3
72 <211> LENGTH: 692
73 <212> TYPE: DNA
74 <213> ORGANISM: Homo sapiens
76 <400> SEQUENCE: 3
77 atgacatgc atccatttac agtaaagggg ttgcctacat ctcagacaac acttcatgta 60
78 aagtacacaa atcaaggaaa cagcttcacat actgatgta cctttaatct aacaagatct 120
79 ctataaaaca agaaaaccctc tacgtacaga tcttttaaaa ttaaagcagg catctttgct 180
80 gatccacctc tataagttgc aggttgagta tctcttatct gaaatgctag agaccagaag 240
81 tgttttcagg ttcagatatt tagattttgg aatatttgca tatacacgag atatccaggg 300
82 gaagagaccc aagtctaaac atgaaattca tttatgtttc atatacacct catatatata 360
83 tagcctgaag gtaattttat acagtattta taatttgtcc aaggaacaaa gttttgactg 420
84 tgttttgact atgactcgtc atgtgaagtc atatgtggaa ttttccactt gtggcatcac 480
85 acaggcactc aaaaagcttc agatttgagg gcatattgga tttcgcatat tcagattagg 540
86 gatgctcaac ccatactcag tttaccagta aaaaacata atgtttgcaa ttactcctcc 600
87 ttttaaatat ataattattt ttggatggg ggaaaagagt gagaacttta tttcacctgc 660
88 ccgggcagcc gctcgagccc tatagtgaat aa 692
91 <210> SEQ ID NO: 4
92 <211> LENGTH: 115
93 <212> TYPE: PRT
94 <213> ORGANISM: Homo sapiens
96 <400> SEQUENCE: 4
97 Met Leu Glu Thr Arg Ser Val Ser Gly Phe Arg Tyr Leu Asp Phe Gly
98 1 5 10 15
100 Ile Phe Ala Tyr Thr Arg Asp Ile Gln Gly Lys Arg Pro Lys Ser Lys
101 20 25 30
103 His Glu Ile His Leu Cys Phe Ile Tyr Thr Ser Tyr Ile Tyr Ser Leu
104 35 40 45
106 Lys Val Ile Leu Tyr Ser Ile Tyr Asn Leu Ser Lys Glu Gln Ser Phe
107 50 55 60
109 Asp Cys Val Leu Thr Met Thr Arg His Val Lys Ser Tyr Val Glu Phe
110 65 70 75 80
112 Ser Thr Cys Gly Ile Thr Gln Ala Leu Lys Lys Leu Gln Ile Trp Glu
113 85 90 95
115 His Ile Gly Phe Arg Ile Phe Arg Leu Gly Met Leu Asn Pro Tyr Ser
116 100 105 110
118 Val Tyr Gln
119 115
122 <210> SEQ ID NO: 5
123 <211> LENGTH: 2351
124 <212> TYPE: DNA
125 <213> ORGANISM: Homo sapiens
127 <220> FEATURE:
128 <221> NAME/KEY: misc_feature
129 <222> LOCATION: (408)

```

## RAW SEQUENCE LISTING

DATE: 06/03/2002

PATENT APPLICATION: US/09/783,436

TIME: 13:59:23

Input Set : A:\Cural721.app

Output Set: N:\CRF3\06032002\I783436.raw

130 &lt;223&gt; OTHER INFORMATION: Where n is an A, T, G, or C

132 &lt;400&gt; SEQUENCE: 5

133 taaaaaataca aaaaattagc cgggcgtagt ggcgggcgcc tgtagtccca gctacttggg 60  
 134 aggtctgaggc aggagaatgg cgtgaaccgc ggagggcagag cttgcagtga gccgagatcc 120  
 135 cgccactgca ctccagcctg ggcgacagag cgagactccg tctcaaaaaa aaaaaaaaaa 180  
 136 aacatcctga gccgggctg gaaaagctct ttgcagatgg cgttccatc tctgcgcccc 240  
 137 tcggggtggg ggctgtccca tgttgcctc gctggggcct ctcaggtctc ctctttgccc 300  
 138 acccaaaagg aaaaatccac tgcacctca cttggtgact gacgccgtg ccagaaacat 360  
 W--> 139 cctggagacg ctcttccaca catggatggg gcctgctatc gatccccntg tcagctttta 420  
 140 tcatgccgac cagctcaagc cccaggtctc ctggatcccc aacaagcact actccggcct 480  
 141 ctatgggcta atgaagctgg tgcctgccc tgccttgctt gctgagctgg ccgcgtcat 540  
 142 tgtcctggac acggatgtca ccttcgcctc tgacatctcg gagctctggg ccctctttgc 600  
 143 tcaactttct gacacgcagg cgatcggctt tgtggagaac cagagtgaact ggtacctggg 660  
 144 caacctctgg aagaaccaca ggccctggcc tgccttgggc cggggattta acacaggtgt 720  
 145 gatcctgctg cggtctggac ggctccggca ggctggctgg gagcagatgt ggaggctgac 780  
 146 agccaggcgg gagctcctta gcctgcctgc cactcactg gctgaccagg acatcttcaa 840  
 147 cgctgtgatc aaggagcacc cggggctagt gcagcgtctg ccttgtgtct ggaatgtgca 900  
 148 gctgtcagat cacacactgg ccgagcgtg ctactctgag gcgtctgacc tcaaggtgat 960  
 149 cactggaac tcaccaaaga agcttcgggt gaagaacaag catgtggaat tcttccgcaa 1020  
 150 tttctacctg accttccctg agtacgatgg gaacctgctg cggagagagc tctttgtgtg 1080  
 151 cccagccag ccccccactg gtgctgagca gttgcagcag gccctggcac aactggacga 1140  
 152 ggaagacccc tgccttgagt tccggcagca gcagctcact gtgcaccgtg tgcattgtac 1200  
 153 tttcctgccc catgaaccgc ccccccccg gcctcacgat gtcacccttg tggccagct 1260  
 154 gtccatggac cggtgcaga tgttgaagc cctgtgcagg cactggcctg gccccatgag 1320  
 155 cctggccttg tacctgacag acgcagaagc tcagcagttc ctgcatttct tcgaggcctc 1380  
 156 accagtgtt gctgcccggc aggaagtggt ctaccatgtg gtgtaccgtg agggggccct 1440  
 157 ataccgcgtc aaccagcttc gcaacgtggc cttggccag gccctcacgc cttacgtctt 1500  
 158 cctcagtgac attgacttcc tgcctgccta ttctctctac gactacctca gggcctccat 1560  
 159 tgagcagctg gggctgggca gccggcgcaa ggcagcactg gtgggtgccg catttgagac 1620  
 160 cctgcgctac cgcttcagct tccccattc caaggtggag ctgttggcct tgcaggatgc 1680  
 161 gggcactctc tacaccttca ggtaccacga gtggccccga ggccacgcac ccacagacta 1740  
 162 tgcccgctgg cgggaggctc agggcccgta ccgtgtgcaa tgggcggcca actatgaacc 1800  
 163 ctacgtggtg gtgccacgag actgtccccg ctatgatcct cgctttgtgg gcttcggctg 1860  
 164 gaacaaagtg gccacattg tggagctgga tgcccaggaa tatgagctcc tgggtgctgcc 1920  
 165 cgaggccttc accatccatc tgccccacgc tccaagcctg gacatctccc gcttccgctc 1980  
 166 cagccccacc tatcgtgact gcctccaggc cctcaaggac gaattccacc aggacttgtc 2040  
 167 ccgccaccat ggggctgctg ccctcaaata cctccagcc ctgcagcagc ccagagccc 2100  
 168 tgcccgaggc tgaggctggg ccggcgctgc ccctcatctt agcattgggc agacaccagg 2160  
 169 gcaacctgcc ctccgccatc cctgctatct aaattattta aggtctctgg gaagggtggt 2220  
 170 ggcagagcat ctgtggggtg gggctctccc cttgctgcta ttgtatggct ggggactggt 2280  
 171 ctctctctgc ccagccagt ttggggctgg tcccccatc ttgaattgtt tatccctttt 2340  
 172 tcataattaa a 2351  
 175 <210> SEQ ID NO: 6  
 176 <211> LENGTH: 616  
 177 <212> TYPE: PRT  
 178 <213> ORGANISM: Homo sapiens  
 180 <400> SEQUENCE: 6  
 181 Met Leu Leu Leu Leu Gly Pro Leu Arg Leu Pro Leu Cys Pro Pro Lys  
 182 1 5 10 15

## RAW SEQUENCE LISTING

DATE: 06/03/2002

PATENT APPLICATION: US/09/783,436

TIME: 13:59:23

Input Set : A:\Cural721.app

Output Set: N:\CRF3\06032002\I783436.raw

```

184 Arg Lys Asn Pro Leu His Leu His Leu Val Thr Asp Ala Val Ala Arg
185          20          25          30
187 Asn Ile Leu Glu Thr Leu Phe His Thr Trp Met Val Pro Ala Ile Asp
188          35          40          45
190 Pro Val Ser Phe Tyr His Ala Asp Gln Leu Lys Pro Gln Val Ser Trp
191          50          55          60
193 Ile Pro Asn Lys His Tyr Ser Gly Leu Tyr Gly Leu Met Lys Leu Val
194 65          70          75          80
196 Leu Pro Asn Ala Leu Pro Ala Glu Leu Ala Arg Val Ile Val Leu Asp
197          85          90          95
199 Thr Asp Val Thr Phe Ala Ser Asp Ile Ser Glu Leu Trp Ala Leu Phe
200          100         105         110
202 Ala His Phe Ser Asp Thr Gln Ala Ile Gly Leu Val Glu Asn Gln Ser
203          115         120         125
205 Asp Trp Tyr Leu Gly Asn Leu Trp Lys Asn His Arg Pro Trp Pro Ala
206          130         135         140
208 Leu Gly Arg Gly Phe Asn Thr Gly Val Ile Leu Leu Arg Leu Asp Arg
209 145          150         155         160
211 Leu Arg Gln Ala Gly Trp Glu Gln Met Trp Arg Leu Thr Ala Arg Arg
212          165         170         175
214 Glu Leu Leu Ser Leu Pro Ala Thr Ser Leu Ala Asp Gln Asp Ile Phe
215          180         185         190
217 Asn Ala Val Ile Lys Glu His Pro Gly Leu Val Gln Arg Leu Pro Cys
218          195         200         205
220 Val Trp Asn Val Gln Leu Ser Asp His Thr Leu Ala Glu Arg Cys Tyr
221          210         215         220
223 Ser Glu Ala Ser Asp Leu Lys Val Ile His Trp Asn Ser Pro Lys Lys
224 225          230         235         240
226 Leu Arg Val Lys Asn Lys His Val Glu Phe Phe Arg Asn Phe Tyr Leu
227          245         250         255
229 Thr Phe Leu Glu Tyr Asp Gly Asn Leu Leu Arg Arg Glu Leu Phe Val
230          260         265         270
232 Cys Pro Ser Gln Pro Pro Pro Gly Ala Glu Gln Leu Gln Gln Ala Leu
233          275         280         285
235 Ala Gln Leu Asp Glu Glu Asp Pro Cys Phe Glu Phe Arg Gln Gln Gln
236          290         295         300
238 Leu Thr Val His Arg Val His Val Thr Phe Leu Pro His Glu Pro Pro
239 305          310         315         320
241 Pro Pro Arg Pro His Asp Val Thr Leu Val Ala Gln Leu Ser Met Asp
242          325         330         335
244 Arg Leu Gln Met Leu Glu Ala Leu Cys Arg His Trp Pro Gly Pro Met
245          340         345         350
247 Ser Leu Ala Leu Tyr Leu Thr Asp Ala Glu Ala Gln Gln Phe Leu His
248          355         360         365
250 Phe Val Glu Ala Ser Pro Val Leu Ala Ala Arg Gln Asp Val Ala Tyr
251          370         375         380
253 His Val Val Tyr Arg Glu Gly Pro Leu Tyr Pro Val Asn Gln Leu Arg
254 385          390         395         400
256 Asn Val Ala Leu Ala Gln Ala Leu Thr Pro Tyr Val Phe Leu Ser Asp

```

## RAW SEQUENCE LISTING

DATE: 06/03/2002

PATENT APPLICATION: US/09/783,436

TIME: 13:59:23

Input Set : A:\Cural721.app

Output Set: N:\CRF3\06032002\I783436.raw

```

257           405           410           415
259 Ile Asp Phe Leu Pro Ala Tyr Ser Leu Tyr Asp Tyr Leu Arg Ala Ser
260           420           425           430
262 Ile Glu Gln Leu Gly Leu Gly Ser Arg Arg Lys Ala Ala Leu Val Val
263           435           440           445
265 Pro Ala Phe Glu Thr Leu Arg Tyr Arg Phe Ser Phe Pro His Ser Lys
266           450           455           460
268 Val Glu Leu Leu Ala Leu Leu Asp Ala Gly Thr Leu Tyr Thr Phe Arg
269 465           470           475           480
271 Tyr His Glu Trp Pro Arg Gly His Ala Pro Thr Asp Tyr Ala Arg Trp
272           485           490           495
274 Arg Glu Ala Gln Ala Pro Tyr Arg Val Gln Trp Ala Ala Asn Tyr Glu
275           500           505           510
277 Pro Tyr Val Val Val Pro Arg Asp Cys Pro Arg Tyr Asp Pro Arg Phe
278           515           520           525
280 Val Gly Phe Gly Trp Asn Lys Val Ala His Ile Val Glu Leu Asp Ala
281           530           535           540
283 Gln Glu Tyr Glu Leu Leu Val Leu Pro Glu Ala Phe Thr Ile His Leu
284 545           550           555           560
286 Pro His Ala Pro Ser Leu Asp Ile Ser Arg Phe Arg Ser Ser Pro Thr
287           565           570           575
289 Tyr Arg Asp Cys Leu Gln Ala Leu Lys Asp Glu Phe His Gln Asp Leu
290           580           585           590
292 Ser Arg His His Gly Ala Ala Ala Leu Lys Tyr Leu Pro Ala Leu Gln
293           595           600           605
295 Gln Pro Gln Ser Pro Ala Arg Gly
296           610           615

```

299 &lt;210&gt; SEQ ID NO: 7

300 &lt;211&gt; LENGTH: 812

301 &lt;212&gt; TYPE: DNA

302 &lt;213&gt; ORGANISM: Homo sapiens

304 &lt;400&gt; SEQUENCE: 7

```

305 ttttttttgg caaaacccca tttctactaa aaatacaaaa attagctggg tacctggtg 60
306 cacacagata atcccagcta ctcaggagga tgaggcagga gaatcgcttt aaaatgggag 120
307 gcggaggctg tagtgagcca agattgtgcc actgcactcc agcctgggca acaaagttag 180
308 actcttatct tacaagaaaa aaaagaatgc ttaggaatca actcccctcc taatgcccag 240
309 acaggtgaaa tgacttgctc aggccacagt tctgcccag ccagcaccag ccagtggcac 300
310 agcagaatgc aaggaggagg tggtagctac ttccacagca taggtgctgc cggggtcctc 360
311 agagcagggtg gcacagtaat aaatggcatc ccccgagtca cagcagggtc tgttacaagt 420
312 cagcttgaag agcgaccagt tattctcatt gaagtggagc tcctttttct ggccgcccac 480
313 gaagagggtcc tcacatttgg ctacaaggcg ggccagggac tgggtgtaga gtccccccag 540
314 cttggcatag gtgcccctct tgetgctgat gttgctcagg agaccgtgca gctgaagctg 600
315 ggtgctcccc gtggagggtt gactggacac gctcagctgg gaggatgagg cggagggggc 660
316 ccccttgcac tggaggccag ggctcccgcg gccgcctctg ttgccgcga gccctgctgc 720
317 cgggaagccag tggccctgcc ttgaaaagct ttctccagag gatcggaaga ggagaagaca 780
318 ggatggtggc ggttcccggg gctcaccgaa ta 812

```

321 &lt;210&gt; SEQ ID NO: 8

322 &lt;211&gt; LENGTH: 132

323 &lt;212&gt; TYPE: PRT

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/783,436

DATE: 06/03/2002  
TIME: 13:59:24

Input Set : A:\Cural721.app  
Output Set: N:\CRF3\06032002\I783436.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:5; N Pos. 408

Seq#:16; N Pos. 570,571,572,573,574,575,576

Seq#:22; Xaa Pos. 260,261,262,263,264,265,266,267,268,269,270,271,272,273

Seq#:22; Xaa Pos. 274,295,296,297,298,299,300,301,302,303,304

Seq#:24; Xaa Pos. 260,261,262,263,264,265,266,267,268,269,270,271,272,273

Seq#:24; Xaa Pos. 274,295,296,297,298,299,300,301,302,303,304

Seq#:75; Xaa Pos. 50